

*Bowier, E. L.* THE PHYSIC LIFE OF INSECTS. English translation by L. O. Howard, pp. XVI+377 New York, The Century Co.

Dr. Howard has made available to the English-reading public, in a most excellent translation, Bouvier's highly entertaining and stimulating treatment of insect-behavior.

*Lavier, Geo.* LES PARASITES DES INVERTÉBRÉS HÉMATOPHAGES; PARASITES QUI LEUR SONT PROPRE; PARASITES QU'ILS TRANSMETTENT AUX VERTÉBRÉS. 218 pp. illus. Paris, Vigot Frères, 1921.

A very complete account of the microparasites of blood-sucking insects and of their relations to disease in man and other vertebrates.

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#### PROCEEDINGS OF THE CAMBRIDGE ENTOMOLOGICAL CLUB.

March 14, 1922, Mr. C. W. Johnson showed a collection of New England Hippoboscidae and gave an account of their habits, classification and distribution. See vol. 39, Nos. 4-6.

Mr. W. J. Clench showed the milkweed beetles *Tetraopes tetraophthalmus* and *canteriator* and a supposed hybrid between them.

Prof. W. M. Wheeler told about a mass of saw-fly larvæ, which he had observed in South America, moving slowly through the wet grass like a single animal. Mr. C. W. Johnson called attention to a similar habit in the dipterous genus *Sciara* in which the larvæ cluster together in a long narrow mass which moves along like a worm. See vol. 29, Nos. 4-6.

April 11, 1922. Mr. F. Waldo Dodge showed a collection of over a hundred species of the coleopterous family Tenebrionidae. He also gave an account of the common species of *Coccinella*, illustrated by drawings.

Several members discussed the food-habits of Dragon-flies. Mr. Frost said that while collecting he had been protected from mosquitoes by Dragon-flies as long as he remained in sunshine. Mr. Dodge described the catching of *Cicindela* by Dragon-flies; he said the beetle could defend itself by standing on end and offering only its head and mandibles to attack.

Mr. Roland Hussey gave an account of the hemipterous bugs of the genus *Triatoma*. See *Psyche* Vol. 29 No. 3.

Mr. C. W. Johnson described a *Tipula* from Mt. Washington in which the venation of the wings differed on the two sides in ways previously considered characteristic of different species.

The committee on public lectures reported that six lectures had been given as follows:

February 18. L. O. Howard. On the work of the Bureau of Entomology with special reference to the Gipsy Moth and other injurious insects of local interest. February 25. Wm. T. M. Forbes. On the Butterflies and Moths. March 4. J. Chester Bradley. On Some Habits of Wasps and their relatives. March 11. C. T. Brues. On Mosquitoes and other insects as carriers of disease. March 18. Miss Edith M. Patch. On the Seven Lives of an Elm Aphid, *Erisoma lanigerum*. March 25. J. H. Emerton. On the Spiders, their structure, habits and relations to Insects.

The lectures were fully illustrated by lantern slides and by the new motion-pictures of insects of the Society for Visual Education. Audiences of about one hundred persons attended and paid half the expense of the course, the rest being met by subscription among members of the Club.

May 9, 1922 Prof. W. M. Wheeler read a paper on the distribution of the genus *Formica* in the tropics. See *Psyche* Vol. 29 Nos. 4.

Mr. C. W. Johnson described two new dipterous flies from Mt. Desert, Maine and other New England localities.

Mr. R. H. Howe, Jr., remarked on recent collections of Dragon-flies, especially the formerly rare *Williamsonia lintneri*, several of which have lately been taken near Boston.

Miss Butler exhibited an unidentified larva found in Michigan in considerable numbers among eggs of *Tabannus* flies on leaves of *Typha latifolia*.

June 13, 1922 Mr. Denton showed May-flies found in great numbers near ponds and collected by handfuls beneath the hood of his automobile.

Mr. C. A. Frost showed recently collected Coleoptera.

Prof. Brues gave some notes on food plants of the Colorado potato-beetle, especially *Solanum rostratum*.

Prof. W. M. Wheeler showed some wingless Hymenoptera of the genus *Scleroderma* from Texas which feed on soft larvæ of any kind, raise a brood in a month's time and can be kept in confinement. It has winged and wingless forms of both sexes and appears to be an attractive subject for genetic studies.

September 12, 1922 Mr. O. E. Plath gave an account of his observations on Bumblebees begun in 1921 and continued through the summer of 1922, during which time thirty-seven colonies were kept in boxes and watched through the season. In most of the nests *Atherophagus* beetles were found, sometimes attached to the feet or antennæ of bees. Chelifers were found in considerable numbers in one nest. The parasitic bees, *Psithyrus*, were found in several nests and new observations made on their habits and relations to their hosts. See vol. 29, Nos. 4-6.

October 10, 1922 the list of members was read and corrected. The death was announced of Laurence R. Reynolds, Vice-president of the Club, and a well known student of the Coleoptera. He had been on a collecting trip to the West Indies and Venezuela from which he returned in poor health and died in Boston, October 9. Mr. C. W. Johnson gave an account of his summer collecting at Mt. Desert in June and again in September and at the Rangeley Lakes, Maine. Mr. Johnson also discussed a collection of insects made by Owen Bryant in Vermont near Mt. Mansfield. Mr. J. H. Emerton spoke of his collecting in July in

eastern Maine where successful photographs were made of the webs of *Theridion zelotypum*, a spruce-forest spider, and where *Leinyphia nearctica* had been found in a bog at South Gouldsboro fifty miles farther south than any previous record.

November 14, 1922 Dr. J. W. Chapman, who had returned from six years residence in the Philippines, read a paper by himself and Prof. Wheeler on the mating of ants of the genus *Diacamma* of which no winged females are known. See vol. 29, Nos. 4-6. Dr. Chapman afterwards showed some lantern slides and gave an account of the country near Dumaguete where he had been living.

Mr. C. W. Johnson gave an account of the recent occurrence in large numbers of the European fly *Muscina pascuorum* which had been reported at various places in the eastern United States. See vol. 30, No. 1.

Prof. C. R. Crosby of Cornell University told about the Extension Entomological work in New York State by which entomologists of the State College of Agriculture are kept in touch with farmers, information in regard to injurious insects collected and remedies recommended.

December 12, 1922 Dr. Alice M. Boring of Wellesley College read a paper on the chromosomes in the germ cells of the two varieties of the frog-hopper, *Monecphora bicincta*. No differences were found.

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